

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/015374 A1

(51) International Patent Classification⁷: **G01C 21/20**,
15/00, G06K 9/00, G03B 15/00, G08C 17/02, G05B
23/02, G01P 13/00

Newtown, Wellington (NZ). MANN, Graham, Leslie
[NZ/NZ]; 134 Knights Road, Lower Hutt, Wellington
(NZ).

(21) International Application Number:
PCT/NZ2003/000174

(74) Agent: **BALDWIN SHELSTON WATERS**; 342
Lambton Quay, PO Box 852, Wellington (NZ).

(22) International Filing Date: 7 August 2003 (07.08.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
520687 9 August 2002 (09.08.2002) NZ

(71) Applicant (*for all designated States except US*): **SUR-
VEYLAB GROUP LIMITED** [NZ/NZ]; C/- Mason
King, 354 Lambton Quay, Wellington (NZ).

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

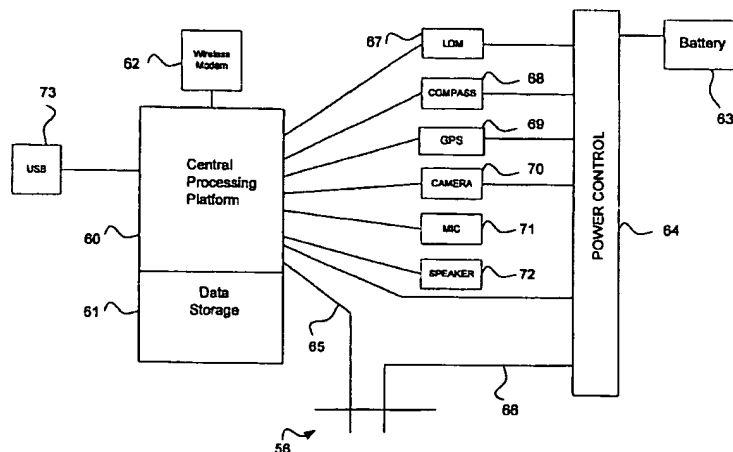
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **PRENTICE, Mark,
Eric, James** [NZ/NZ]; 26 Coromandel Street, Newtown,
Wellington (NZ). **LAMMERS VAN TOORENBURG,
Leon** [NZ/NZ]; 51 Norway Street, Wellington (NZ).
BOND, Craig, Richard [NZ/NZ]; 88 Daniell Street,

Published:
— with international search report

[Continued on next page]

(54) Title: MOBILE INSTRUMENT, VIEWING DEVICE, AND METHODS OF PROCESSING AND STORING INFORMATION



(57) Abstract: A method of transferring information stored in a mobile instrument, the information including a first information file (140) containing metadata and a pointer indicative of a first auxiliary file address; and a first auxiliary file (141) containing image information, the first auxiliary file being located at the first auxiliary file address. The method includes the steps of: storing the metadata in a second information file (140'); storing the image information in a second auxiliary file (142') at a second auxiliary file address; generating a second pointer indicative of the second auxiliary file address; and storing the second pointer in the second information file. The instrument includes a camera (70); one or more spatial sensors; and an external sensor port (56). Power to the sensors can be controlled asynchronously. Various parsing methods are also described. The instrument includes a marker module configured to superimpose a marker on the image.

WO 2004/015374 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.